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Number of Pages (including this page)

Date:

April 4, 2005

To:

Examiner Donna K. Mason, Art Unit: 2111

Mail Stop: Appeal Bricf - Patents

Location:

United States Patent and Trademark Office

Fax No.:

Central Facsimile Number (703) 872-9306

From:

Barbara R. Doutre

Attorney Reg. No.: 39,505

Subject:

Self-Extracting Re-Configurable Interface

Docket No.: CM03553J

Used In Modular Electronic Architectures

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### MESSAGE:

Enclosed herewith, please find 14 pages (including this page) as follows:

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1 page (with authorization to charge fees)

Appeal Brief

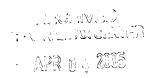
11 pages

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office Central Facsimile Number, 703-872-9306, on April 4, 2005.

Vernice V Freehourne

				Application Number	09/89	5,506				
				Filing Date	June 2	29, 2001				
TRANSMITTAL				First Named Inventor Chai		rles B. SWOPE				
FORM				Group Art Unit 211		1111				
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Total Number of Pages in this Submission 14			1	Attorney Docket Number CM03553J						
ENCLOSURES (check all that apply)								l that apply)		
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Affidavits/Declaration(s)			(	Petition to Convert to a Provisional Application			Status Letter with appropriate copies			
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Firm or Individual	Dr Barbara B. Doutre					Registration No. 39,505		39,505		
Signature Bare R. Dat										
Date	April 4,	2005								
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Typed or printed name Vernice V. Freebourne										
Signature			ebonne			Da	ate	April 4, 2005		

Effective on 12/08/2004				Complete if Known					
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FEE TRANSMITTAL				Filing Date			June 29, 2001		
For FY 2005				First Named Inventor			Charles B. SWOPE		
Applicant claims small entity status. See 37 CFR 1.27							Donna K. Mason		
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3. APPLICATION SIZE FEE: If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
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Docket No. CM03553J

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

APPLICANT:

SWOPE ET AL.

ART UNIT: 2111

APPLN. NO.:

09/895,506

EXAMINER: MASON, DONNA K.

FILED:

JUNE 29, 2001

TTTLE:

SELF-EXTRACTING RE-CONFIGURABLE INTERFACE USED IN

MODULAR ELECTRONIC ARCHITECTURES

### APPEAL BRIEF

Mail Stop Appeal Brief - Patents Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Attention: Board of Patent Appeals and Interferences

Dear Chief Administrative Patent Judge:

This Appeal Brief is in furtherance of the Notice of Appeal, transmitted via facsimile on March 31, 2005.

The fees required under 37 C.F.R. § 41.20(b)(2), and any required petition for extension of time for filing this Appeal Brief are dealt with in the accompanying Transmittal Form.

This brief is being transmitted by facsimile pursuant to 37 C.F.R. § 1.6(d).

This brief contains items under the headings listed in the following Table of Contents, and in the order indicated in 37 C.F.R. § 41.37(c).

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#### **REAL PARTY IN INTEREST** ĭ.

The real party of interest is Motorola, Inc., a Delaware corporation.

#### II. RELATED APPEALS AND INTERFERENCES

There are no related appeals or interferences.

#### III. STATUS OF CLAIMS

This is an appeal from the final rejection of claims 1-3, 6, 7, 9-12 and 14-16 of the abovereferenced application.

#### TOTAL NUMBER OF CLAIMS IN APPLICATION A.

Claims in the application are: 12

#### B. STATUS OF ALL THE CLAIMS

Claims allowed: 1.

none

2. Claims objected to:

none

3.

Claims rejected:

all

#### C. CLAIMS ON APPEAL

The claims on appeal are:

1-3, 6, 7, 9-12 and 14-16

#### IV. STATUS OF AMENDMENTS

A Final Rejection was mailed January 6, 2005 in response to an Amendment filed September 20, 2004. The Amendment and arguments were considered by the Examiner, but deemed not persuasive. Applicants faxed a Notice of Appeal on March 31, 2005. This Appeal Brief is submitted in support of the Notice of Appeal.

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### V. SUMMARY OF THE CLAIMED INVENTION

The claimed subject matter pertains to a re-configurable interface used in modular electronic architectures. As seen in FIG. 2, the re-configurable interface includes a host (203) and one or more modules (201) for interfacing with the host (203) to provide additional functionality. The host (203) has no prior configuration information pertaining to the one or more modules (201). A configuration controller (209) located in the host (203) reads a memory device (215) located in the module (201), the memory device provides configuration information to the host. The pin controller (209) is then able to reconfigure pins of the host connector (207) to communicate with the module (201).

### VI. ISSUE

Whether claims 1-3, 6, 7, 9-12 and 14-16 are patentable under 35 U.S.C. 102(e) over U.S. Patent No. 6,687,814 to Duppong.

### VII. GROUPING OF CLAIMS

For purposes of this Appeal, the Applicants are content to consider the claims as being part of one common group.

### VIII. ARGUMENT

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Claims 1-3, 6, 7, 9-12 and 14-16 are patentable under 35 U.S.C. 102(e) over U.S. Patent No. 6,687,814 to Duppong.

On page 2, item 2 of the Final Office Action, the Examiner attempts to equate the elements of Applicants' claimed invention with elements taught in Fig. 1 of the Duppong reference. Each element cited by the Examiner falls within blocks (10) and (20) of Duppong. The Duppong reference, however, teaches a three-part system requiring: a controller (10); an application attachment (20); and an electronic circuit (30). The application attachment (20) operates as a "bridge". All of the embodiments taught by Duppong require that the application attachment (20) be attached to the controller (10) and that the electronic circuit (30) be attached to the application attachment (20), as shown in Fig 1. Further examples of the Duppong reference requiring the use of a "bridging" device to connect (10) to (30) are found in col. 4, lines 65-67 and col. 5, lines 1-5 and the independent claims. Applicants' invention, as claimed in independent claims 1, 7 and 12, utilizes only a host 203 and a module 201 and is therefore a two-part system – not a three part system.

Applicants argued in the response of September 20, 2004 that Duppong's controller (10) does not take on additional functionality without electronic circuit (30). The Examiner countered on page 3 of the Final Action that module (20) provides additional functionality to the host (10), referring to column 3, lines 53-59 of Duppong. However, this example cited by the Examiner even states that these programs relate to electronic circuit (30). Thus, even if Duppong's CPU

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were to run the programs from flash memory (206), no additional functionality would occur without electronic circuit (30) being attached. Applicants maintain that, Duppong's system will not provide additional functionality to controller (10) unless all three devices controller (10) application attachment (20) and electronic circuit (30) are present.

On page 4, lines 4-7 of the Final Action, the Examiner deemed that Applicants arguments of a two-art system over Duppong's three part system were irrelevant and that Duppong's application attachment (20) and electronic circuit (30), when combined, provide for one part. However, Applicants disagree in that the only way application attachment (20) and electronic circuit (30) are ever combined is through the use of a multi-pin plug connector (202) mounted on housing (200) or attached by a cable as taught in column 3, lines 2-13 and Figure 1 of Duppong. Applicants assert that Duppong requires a new attachment (20) for each new electronic circuit (30). Support for this assertion is taught in column 3, line 47-50 where Duppong teaches that an application attachment (20) matching the electronic circuit (30) is attached to the controller (10) and the electronic circuit (30). Furthermore, in column 3, lines 59-63, Duppong teaches that an operator chooses a new application attachment (20) when the operator desires to use the controller (10) with a different electronic circuit (30).

Applicants claim in independent claim 1, 7 and 12 that the host 203 has no prior configuration information pertaining to the at least one module 201. On page 4 lines 9-14 of the Final Action, the Examiner stated that Duppong's controller (10) does not have prior configuration information. Applicants disagree in that the Duppong requires that the user select

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an "application operation" before any interface configuration can occur (see program flowchart in Fig 2.). Applicants' configuration, on the other hand, is completed simply by attaching the module 201 to the host 203. The user is not required to select an application operation, as required by Duppong. Thus, Applicants' invention provides a significant advantage over Duppong. These advantages were described on page 4, lines 7-16 as applicants' specification as follows:

"[I]t is the great benefit of this invention that all that is required to establish communication is for the host and module connectors to inter-connect in order to communicate. Thus, any module 201 having an associated memory device 215, communicating configuration information to pin controller 209 can be compatible. This enables any type of module such as an accessory device to be used with the host device 203 without the need for constant "hard" wire interface compatibility.

Duppong's system suffers from the disadvantage that it must have its FLASH memory pre-store the software in order for the controller (10) to be able to communicate with device (30) - (See: column 3, lines 53-56). Thus, an almost unlimited number of physical "bridges" must exist in order for the Duppong patent to really be compatible with other circuit devices.

Applicants' invention, on the other hand, claims "at least one memory device located in the at least one module for providing configuration information to the host". Each new module that gets attached to the host contains its own configuration information to mate to the host device. Therefore, Applicants have overcome the need for a "bridging" interface that is only useful for one possible configuration.

The remaining dependent claims provide further limitations to the independent claims.

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In summary, Applicants respectfully submit that the prior art of record taken individually or combined utterly fails to teach or suggest the recitations of claims 1-3, 6, 7, 9-12 and 14-16.

## Conclusion

For the reasons set forth above, and as is apparent from a review of the above-cited reference, the pending claims 1-3, 6, 7, 9-12 and 14-16 present patentable subject matter such that reversal of the rejection is appropriate.

Respectfully submitted,

Please send correspondence to:

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# IX. CLAIMS APPENDIX

A re-configurable interface used in modular electronic architectures comprising:
 a host;

at least one module for interfacing with the host to provide additional functionality to the host, the host having no prior configuration information pertaining to the at least one module:

a configuration controller located in the host for reading at least one memory device located in the at least one module for providing configuration information to the host;

a configurable logic operating with the configuration controller for configuring a host interface to operate with an at least one module interface; and

a plurality of connector pins at the host and at least one module that are electrically configured using the configurable logic.

- 2. A re-configurable interface as in claim 1, wherein the configuration controller self-extracts the configuration information from the at least one memory device after interfacing with the at least one module with the host.
- 3. A re-configurable interface as in claim 1, further including a dedicated serial interface for exchanging information from the at least one memory device to the configuration controller.
  - 4. canceled
  - 5. canceled
- 6. A re-configurable interface as in claim 1, further including a microprocessor for communicating with the configuration controller.

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7. A re-configurable electronic interface system for providing communication between a primary host device and a secondary accessory device comprising:

an interface controller including re-configurable logic associated with the primary host device, the primary host device having no prior configuration information pertaining to the secondary accessory device;

at least one memory device associated with the secondary accessory device for communicating configuration information to the interface controller;

a plurality of electrical interface pins for connecting the primary host device and the secondary accessory device; and

wherein the interface controller sets the re-configurable logic of the re-configurable electronic interface system based on information from the at least one memory device for allowing compatibility between the secondary accessory device and the primary host device by configuring the plurality of electrical interface pins according to the re-configurable logic.

# 8. canceled

- 9. A re-configurable electronic interface system as in claim 7, wherein the interface controller self-extracts the configuration information from the at least one memory device.
- 10. A re-configurable electronic interface system as in claim 7, wherein the interface controller and at least one memory device communicate via a dedicated serial interface.
- 11. A re-configurable electronic interface system as in claim 7, wherein the interface controller communicates with a microprocessor.
  - 12. A method of reconfiguring an interface used in a modular electronic architecture

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between a primary host device and a secondary module device, the primary host device having no prior configuration information pertaining to the secondary module, comprising the steps of:

providing an interface controller associated with the primary host device;

reading configuration information from at least one memory associated with the secondary module device;

setting configurable logic in the primary host device such that an electrical interface is established between the primary host device and the secondary module device; and

configuring a plurality of pins in the interface to provide capability between the primary host device and the secondary module device.

### 13. canceled

- 14. A method of reconfiguring an interface as in claim 12, further comprising the step of: self-extracting the configuration information from the at least one memory when the secondary module device is connected with the primary host device.
- 15. A method of reconfiguring an interface as in claim 12, further comprising the step of: communicating between the interface controller and the at least one memory via a dedicated serial interface.
  - 16. A method of reconfiguring an interface as in claim 12, further comprising the step of: controlling the interface controller using a microprocessor.